

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER No. 92-061
NPDES No. CA0028363

WASTE DISCHARGE REQUIREMENTS FOR:

HENKEL CORPORATION, PARKER+AMCHEM
FREMONT, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Henkel Corporation, Parker+Amchem, formerly known as Amchem Products Inc., hereinafter called the discharger, by application dated October 13, 1989, has applied for renewal of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).
2. The discharger's facility is located at 37899 Niles Boulevard, Fremont, immediately adjacent to Alameda Creek, a major groundwater recharge stream. The plant's principal activities are the manufacturing of metal cleaning chemicals, and the transporting of bulk and packaged specialty chemicals.
3. The operations at this facility produce no process wastes except for washwater that results from washing inside floor areas and equipment when there is a change in product types. This wastes are discharged to Union Sanitary District under permit issued by the District.
4. The discharger has implemented a stormwater management plan. The plan segregates stormwater from operational areas from runoff from non-operational areas of the site. The potentially polluted stormwater from the operational areas is collected in a tank, tested and then discharged to Union Sanitary District's sewer system. Only when tank capacity is occasionally exceeded will stormwater runoff be discharged into Alameda Creek.
5. The discharge is presently governed by Waste Discharge Requirements, Order No. 85-12 which allows discharge into Alameda Creek.

6. The U.S. Environmental Protection Agency and the Board have classified this discharge as a minor discharge.
7. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) in December 1991. The Basin Plan contains water quality objectives for Alameda Creek and contiguous waters.
8. The beneficial uses of Alameda Creek and contiguous water bodies are:
 - o Water contact recreation
 - o Non-contact water recreation
 - o Wildlife habitat
 - o Warm and cold fresh water habitat
 - o Fish migration and spawning
 - o Agricultural supply
 - o Groundwater supply
9. Effluent limitation guidelines requiring the application of best available technology (BAT) economically achievable have not been promulgated by the U.S. Environmental Protection Agency for this type of discharge. Effluent limitations of the Order are based on the Basin Plan, State Plans and Policies, current plant performance and best professional judgement. The limitations are considered to be those attainable by BAT, in the judgement of the Board.
10. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000 of Division 13) of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
11. The Board has notified the discharger and interested agencies and persons of its intent to reissue waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit written views and recommendations.
12. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT Henkel Corporation, Parker+Amchem, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

The discharge to waters of the state of process wastes or wastewaters; product or material spills; or equipment washdown wastes is prohibited.

B. Stormwater Effluent Limitations

The following limitations apply to the discharge of stormwater runoff:

1. The volumetric discharge rate shall not be greater than one-two hundredth (i.e. 1:200 or 0.5%) of Alameda Creek flow as measured at the Niles Gaging Station. With the prior approval of the Executive Officer, higher discharges may be used in inverse proportion to the concentration of the highest level contaminant in relation to its standard (i.e. if all contaminants are less than 50% of maximum, the discharge rate can be twice the 1:200 specified or 1:100).
2. The discharge shall not have a pH of less than 6.5 nor greater than 8.5.
3. The discharge shall not contain constituents in excess of the following:

<u>Constituent</u>	<u>Units</u>	<u>Daily Average</u>
Chromium (VI) 1	ug/l	11
Nickel	ug/l	160
Zinc	ug/l	110

1 Discharger may meet this limitation as total chromium.

4. In any representative set of samples, the waste as discharged shall meet the following limit of quality:

TOXICITY: The survival of organisms in undiluted effluent shall be a median value of not less than 90 percent survival, and a 90 percentile value of not less than 70 percent survival. Test organisms and methods shall be as specified in chapter IV of the Basin Plan.

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the state at any place.
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
 - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biotas, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be exceeded in waters of the state in any place within one foot of the water surface:
 - a. Dissolved Oxygen 5.0 mg/l minimum. Median of any three consecutive months shall not be less than 80% saturation. When natural factors cause lesser concentration(s) than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
 - b. pH Variation from natural ambient pH by more than 0.5 pH units.
 - c. Un-ionized ammonia 0.025 mg/l as N annual median
0.4 mg/l as N maximum.


3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. Provisions

1. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 85-12 adopted on February 20, 1985. Order No. 85-12 is hereby rescinded.
2. Responsible personnel shall be on site during all stormwater discharges.
3. The discharger shall comply with all sections of this order immediately upon adoption.
4. The discharger shall review and update annually its contingency plan as required by Board Resolution No. 74-10. The discharge of pollutants in violation of this Order where the discharger has failed to develop and/or implement a contingency plan will be basis for considering such discharge a willful and negligent violation of this Order pursuant to Section 13387 of the California Water Code.
5. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
6. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated December 1986, except items B.2 and C.8.
7. All applications, reports, or information submitted to the Regional Board shall be signed and certified pursuant to Environmental Protection Agency regulations (40 CFR 122.41K).

8. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to this office.
9. Pursuant to Environmental Protection Agency regulations [40 CFR 122.42(a)] the discharger must notify the Regional Board as soon as it knows or has reason to believe (1) that they have begun or expect to begin, use or manufacture of a pollutant not reported in the permit application, or (2) a discharge of a toxic pollutant.
10. This Order expires June 17, 1997. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
11. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Steven R. Ritchie, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on June 17, 1992.



STEVEN R. RITCHIE,
Executive Officer

Attachments: Self Monitoring Program
Standard Provisions and
Reporting Requirements
December, 1986
Resolution 74-10

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

HENKEL CORPORATION, PARKER+AMCHEM

FREMONT, ALAMEDA COUNTY

NPDES No. CA0028363

ORDER No. 92-061

CONSISTS OF

PART A (dated December 1986)

PART B

DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF

ANALYSIS AND OBSERVATIONS

I. Sampling Station Location/Description

A. EFFLUENT

Station

Description

E-001

At any point in the outfall of the wastes between the point of discharge into Alameda Creek and the point at which all waste tributary to that outfall is present, during times when valve from collection sump is open.

B. RECEIVING WATERS

Station

Description

C-R

In Alameda Creek 50 feet upstream from the point of effluent discharge.

C-1

In Alameda Creek, 100 feet downstream from the point the effluent merges with main stream and taken within the second hour of discharge. Quantity of streamflow in Alameda Creek shall be obtained from the Alameda County Water District. If point of merge is not 50 feet from outfall a map/plan showing the location will be submitted with monitoring report.

C. RAINFALL

Station

Description

R

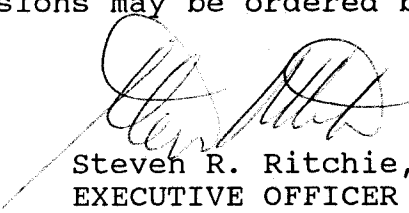
A rain gauge that is maintained on-site that accurately measures daily rainfall. The discharger may utilize a rain gauge offsite provided it can be demonstrated to the satisfaction of the Executive Officer that the off-site rain gauge represents the on-site rainfall.

II. SCHEDULE OF SAMPLING, MEASUREMENTS, AND ANALYSES

A. The schedule of sampling, measurements and analyses shall be given as Table I.

I, Steven R. Ritchie, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 92-061
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions may be ordered by the Executive Officer.


Steven R. Ritchie,
EXECUTIVE OFFICER

DATE ORDERED: June 17, 1992

Attachment: Table I

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-001	C-R	C-1	R
TYPE OF SAMPLE	G ^{1/} O	G O	G O	
Flow Rate (GPM)	E			
BOD, 5-day, 20°C or COD (mg/l & kg/day)				
Chlorine Residual & Dosage (mg/l & kg/day)				
Settleable Matter (ml/l-hr. & cu. ft./day)				
Total Suspended Matter (mg/l & kg/day)				
Oil and Grease (mg/l & kg/day)				
Coliform (Total) (MPN/100 ml) per req't				
Fish Tox'y 96-hr. TL % Surv'l in undiluted waste	M			
Ammonia Nitrogen (mg/l & kg/day)				
Nitrate Nitrogen (mg/l & kg/day)				
Nitrite Nitrogen (mg/l & kg/day)				
Total Organic Nitrogen (mg/l & kg/day)				
Total Phosphate (mg/l & kg/day)				
Turbidity (Jackson Turbidity Units)				
pH (units)	M	M ^{2/}	M ^{2/}	
Dissolved Oxygen (mg/l and % Saturation)				
Temperature (°C)				
Apparent Color (color units)				
Secchi Disc (inches)				
Sulfides (if DO<2.0 mg/l) Total & Dissolved (mg/l)				
Arsenic (mg/l & kg/day)				
Cadmium (mg/l & kg/day)				
Chromium, Total (mg/l & kg/day)	M			
Copper (mg/l & kg/day)				
Cyanide (mg/l & kg/day)				
Silver (mg/l & kg/day)				
Lead (mg/l & kg/day)				

TABLE 1 (Continued)
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-001		C-R		C-1		R							
TYPE OF SAMPLE	^I G	O	G	O	G	O	C-24							
Mercury (mg/l & kg/day)														
Nickel (mg/l & kg/day)	M													
Zinc (mg/l & kg/day)	M													
Total Organic Carbon (mg/l)	M													
All Applicable Standard Observations		E		E		E								
Bottom Sediment Analyses and Observations														
Rainfall (in/day)							D							
Freeboard (ft)														
Alameda Creek Streamflow (gpm)														

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C-24 = composite sample - 24-hour
C-X = composite sample - X hours
(used when discharge does not
continue for 24-hour period)
Cont = continuous sampling
DI = depth-intergrated sample
BS = bottom sediment sample
O = observation

FREQUENCY OF SAMPLING

E = each discharge occurrence
H = once each hour
D = once each day
W = once each week
M = once each month
Y = once each year

2/H = twice per hour
2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/y = once in March and
once in September
Q = quarterly, once in
March, June, Sept.
and December

TYPES OF STATIONS

A = treatment facility influent stations
E = waste effluent stations
C = receiving water stations
P = treatment facilities perimeter stations
L = basin and/or pond levee stations
B = bottom sediment stations
G = groundwaters stations
I = intake and/or water supply stations
R = Rainfall Station

2H = every 2 hours
2D = every 2 days
2W = every 2 weeks
3M = every 3 months
Cont = continuous

NOTES:

1. Take a minimum of 3 grab samples on the day of sampling. The first sample for each day shall be taken during the first hour of discharge, and the others at equal time intervals thereafter. The three samples shall be combined and analyzed.
2. This measurement is not required when the pH of stream E-001 is above 6.5 and below 8.5.